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Application Number

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10/687,570

Mark G. Frei

October 15, 2003

PTO/SB/21 (02-04)
ph 07/31/2006. OMB 0651-0031

(to be used for all correspondence after initi	al filing)	Art Unit	3736	
		Examiner Name	TBD	
Total Number of Pages in This Submission		Attorney Docket Number	011738.00138	
	ENCLO	SURES (check all that apply)		
Fee Transmittal Form	☐ Drawi	ng(s)	After Allowance Communication to Group	
Fee Attached	Licens	sing-related Papers	Appeal Communication to Board of Appeals and Interferences	
Amendment / Reply	Petitio	on.	Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)	
After Final	Petition Applie	on to Convert to a Provisional cation	Proprietary Information	
Affidavits/declaration(s)		r of Attorney, Revocation ge of Correspondence Address	☐ Status Letter	
Extension of Time Request	☐ Termi	nal Disclaimer	Other Enclosure(s) (please identify below):	
Express Abandonment Request	Request for Refund		PTO/SB/08a (4 pages) with copies of article references:	
☐ Information Disclosure Statement	CD, N	umber of CD(s)	Certificate of Express Mailing (1 page); Return Receipt Postcard	
Certified Copy of Priority Document(s)	Remarks The Commissioner is authorized to charge any fees in connection with this correspondence to Deposit Account No 19-0733. A duplicate of this sheet is enclosed.			
Response to Missing Parts/ Incomplete Application				
Response to Missing Parts under 37 CFR 1.52 or 1.53				
SIGNA	TURE OF A	APPLICANT, ATTORNEY, C	DR AGENT	
Firm Banner & Witco	•			
Individual name Binal J. Patel, I	Registratio	n No. 42,065		
Signature				
Date November 23,	2004			
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Bv:

Application of:

Frei, et al.

Application No.:

10/687,570

Filing Date:

October 15, 2003

Title:

Phase Shifting Of Neurological Signals In A Medical Device System

Transmitted herewith are the following documents:

 \underline{X} Transmittal Form (1 page) in duplicate

X Information Disclosure Statement, 1 page

<u>X</u> Information Disclosure Statement by Applicant PTO/SB/08a, 4 pages, with article references attached

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Attorney Case No.:

011738.00138

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re U	.S. Patent App	plication of:)	
		Frei et al.)	E TDD
Applic	ation No.	10/687,570)	Examiner: TBD
Filed:		October 15, 2003)	Art Unit: 3736
For:		ng of Neurological Medical Device System)	

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Pursuant to 37 C.F.R. Section 1.97-1.98, Applicants wish to make the following references listed on the enclosed Forms PTO/SB/08A and PTO/SB/08B of record in the above-identified application. This Information Disclosure Statement is in compliance with the continuing duty of candor as set forth in 37 C.F.R. Section 1.56.

Applicants believe no fees are due in connection with the filing of this Information Disclosure Statement. However, the Commissioner is hereby authorized to charge any fees that may be due or credit any overpayment of fees to our Deposit Account No. 19-0733.

Respectfully submitted,

BANNER & WITCOFF, LTD.

Dated: Nov 23, 2004

By:

Binal Patel

Reg. No. 42,065

Banner & Witcoff 10 South Wacker Dr. Suite 3000 Chicago, IL 60606 (312) 463-5000 - phone (312) 463-5001 - fax

PTO/SB/08a (08-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 4

	Complete if Known	
Application Number	10/687,570	
Filing Date	October 15, 2003	
First Named Inventor	Mark G. Frei	
Art Unit	3736	
Examiner Name	TBD	
Attorney Docket Number	011738.00138	

			U.S. PATENT D	OCUMENTS	
Examiner Initials *	Cite No. ¹	Document Number . Number - Kind Code ² (if known)	Issue/Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 3522811	08/04/1970	Schwartz et al.	-
		US- 3850161	11/26/1974	Saul Liss	
		US- 3863625	02/04/1975	Viglione et al.	
		US- 3967616	07/06/1976	Sidney A. Ross	
		US- 3993046	11/23/1976	Fernandez et al.	
		US- 4019518	04/26/1977	Maurer et al.	
		US- 4038536	07/26/1977	Paul L. Feintuch	
		US- 4295474	10/20/1981	Robert E. Fischell	
		US- 4373527	2/15/1983	Robert E. Fischell	
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		US- 4566464	01/28/1986	Piconne et al.	
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		US- 5269303	12/14/1993	Wernicke et al.	
		US- 5299569	04/05/1994	Wernicke et al.	
		US- 5311876	05/17/1994	Olsen et al.	
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		US- 6473639	10/24/2002	Fischell et al.	
		US- 6480743	11/12/2002	Kirkpatrick et al.	
		US- 6560486	05/06/2003	Osorio et al.	
		US- 6591138	07/08/2003	Ficshell et al.	
	1	US- 6597954	07/22/03	Pless et al.	
		US- 6647296	11/11/2003	Fischell et al.	
		US- 2002/0013614	01/31/2002	David L. Thompson	

Examiner Signature	Date Considered	

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Substitute for form 1449A/PTO Complete if Known Application Number 10/687,570 INFORMATION DISCLOSURE Filing Date October 15, 2003 STATEMENT BY APPLICANT First Named Inventor Mark G. Frei Art Unit 3736 (Use as many sheets as necessary) **TBD** Examiner Name 2 011738.00138 Sheet 4 Attorney Docket Number

			U.S. PATENT		
Examiner Initials *	Cite No. ¹	Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan Passages or Relevant Figures Appear
		US- 5487754	01/30/1996	Snell et al.	
		US- 5626145	05/06/1997	Clapp et al.	
		US- 5683422	11/04/1997	Mark T. Rise	
		US- 5713922	02/03/1998	Gary William King	
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		US- 5743860	04/28/1998	Hively et al.	
		US- 5752976	05/19/1998	Duffin et al.	
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		US- 5978702	11/02/1999	Ward et al.	
		US- 5995868	11/30/1999	Dorfmeister et al.	
		US- 6016449	01/18/2000	Fischell et al.	
		US- 6018682	01/25/2000	Mark T. Rise	
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	1	US- 6117066	09/12/2000	Abrams et al.	
	Î	US- 6128537	10/03/2000	Mark T. Rise	•
•		US- 6128538	10/03/2000	Fischell et al.	
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	1	US- 6366813	04/02/2002	Daniel J. Di Lorenzo	
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	1	US- 6427086	07/30/2002	Fischell et al.	
_		US- 6459936	10/01/2002	Fischell et al.	
	Î	US- 6466822	10/15/2002	Benjamin D. Pless	
	Ī	US- 6473639	10/24/2002	Fischell et al.	

Examiner	Date
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13.15		ON DIG	OL COURT	Application Number	10/687,570	
	-	-	CLOSURE	Filing Date	October 15, 2003	
ST	ATEMEN	T BY A	PPLICANT	First Named Inventor	Mark G. Frei	
				Art Unit	3736	
	(Use as ma	any sheets as	necessary)	Examiner Name	TBD	•
Shee	et 3	of	4	Attorney Docket Number	011738.00138	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Alan V. Oppenheim & Ronald W. Schafer, Digital Signal Processing, Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 1975, pg. 18-24.	
		Gotman J., & Gloor, P., "Automatic Recognition and Quantification of Linterictal Epileptic Activity in the Human Scalp EEG", Electroencephalography and Clinical Neurophysiology, 1976, 41:513-529.	
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		P. Rajna and C. Lona, "Sensory Stimulation for Inhibition of Epileptic Seizures", 30(2) Epilepsia 168-174, 1989	
		R.P. Lesser et al., "Brief Bursts of Pulse Stimulation Terminate Afterdischarges Caused by Cortical Stimulation", Neurology 53, December 1999	
		Webber, W.R.S. et al., "Automatic EEG Spike Detection: What Should the Computer Imitate", 87 Electroencephalography and Clinical Neurophysiology 330-333 (1993)	
		Grassberger, Peter et al., "Characterization of Strange Attractors" Vol. 50, No.5., The American Physical Society, January 31, 1983.	

Examiner	Date	
Signature	Considered	J

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	Substitute	for form 1449	в/РТО				Complete if Known	
	INIEO	DRAATI	ON DI		NIDE.	Application Number	10/687,570	
		RMATIC				Filing Date	October 15, 2003	
	STAT	rement	BYA	APPLIC	ANT	First Named Inventor	Mark G. Frei	
						Art Unit	3736	
	(Use as many sheets as necessary)			<i>(</i>)	Examiner Name	TBD		
$\overline{}$	Sheet	4	of	4		Attorney Docket Number	011738.00138	

	,	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		lasemidis, L. D. and Sackellares, J. C. "Chaos Theory and Epilepsy". The Neuroscientist, 2:118126, 1996. <retrieved citeseer.ist.psu.edu="" from="" http:="" iasemidis96chaos.html=""></retrieved>	
		Elger, Christian E., et al., "Short Communication: Seizure Prediction By Non- Linear Time Series Analysis of Brain Electrical Activity" European Journal of Neuroscience, Vol. 10, pgs. 786-789 (1998)	
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		·	

Examiner	Date	
Signature	 Considered	

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